FIS-6510/6511 / TIS-6510/6511

Wideband RF to Fiber Conversion

fiberplex TECHNOLOGIES, LLC
FOI/TD Import Series

Overview

The 6510 fiber receiver and 6511 fiber transmitter provide a high performance, high reliability, transparent cross-site connection between RF communications equipment. They are ideal for L-Band, low frequency radio and distribution of wireless standards such as cellular, GPS, Wi-Fi and WiMAX. The ultra-wide dynamic range results in negligible degradation of signals due to noise or inter-modulation effects.

FIS-6510 and FIS-6511

Independent of data format, the 6510/6511 are suitable for most analog or digital signal modulation including FM and QPSK. The RF connects via a 50Ω SMA connector. Units are available with Singlemode LC PC, and ST fiber connections *(other custom options available, contact your FiberPlex representative)*.

The FIS-6510 and FIS-6511 are in the FiberPlex standard FOI enclosure. The FOI packaging is the field proven standard for mission critical and military applications. The solid steel enclosure is not only rugged, but provides a seal to minimize EMI and RFI emissions and penetration. The FOI versions can be housed and powered in a standard FiberPlex RMC enclosure or powered standalone using a FiberPlex PSQ-4909 AC or PSQ-4920 DC power supply.

The TIS-6510 and TIS-6511are housed in the commercial 'Throw Down' (TD) packaging. This version is designed to be a work horse unit in various commercial and industrial environments. It is powered either by a 9VDC wall power adapter (included) or via bussed power supplied through an integrated three pin Phoenix™ connector. Up to six units can be installed in the optional 1U TDR-01 rear connect rack shelf, the 1U TDP modular front connect rack shelf or DIN rail mounted.

TIS-6510 and TIS-6511

Features:

- Superior linear performance
- Very low noise
- Ultra-wide dynamic range
- 10MHz – 3000MHz bandwidth
- Transmits all video, data and audio modulation formats
- Transmission distances of >50km
- Multiple carrier transmission
- High link reliability
- 50Ω SMA connection

Applications:

- SATCOM
- Wireless Cameras
- Wireless Microphones
- GPS
- Cellular
- CATV

Partial List of Supported Standards	
	Frequency Range (MHz)
L-Band	1000 – 2000
GPS	1176.45, 1227.60, 1381.05, and 1575.42
Cellular	700-2500
Iridium	1616-1626.5
Wi-Fi	2400
WiMAX	2500
CATV	50-1000
Sat Radio	2310-2360
VHF	30-300
UHF	300-3000

What's the difference between the FIS and the TIS versions?

Functionally, the FIS and TIS versions are identical. The only differences are the packaging and power supply. The FIS is part of the FOI line of products designed for ruggedized military applications while the TIS is housed in the commercial 'Throw Down' (TD) packaging.

	FIS Version	TIS Version
Standalone Power	Requires a PSQ-4909 AC supply or PSQ-4920 DC supply	AC Wall Power Adapter included
Power Connection	High Reliability Lemo™ connector	Both circular DC connector and 3-postion Phoenix™ quick connect
Chassis Mounting	Uses the RMC series chassis for up to 9 units in 2U or 8 units with redundant power supply	6 units in a 1U with the optional TDR-01-AC or TDP
Case	Mil-style sealed steel can enclosure	Durable anodized brushed aluminum

Accessories

FIS Accessories	
RMC-2101	2U Rack, Fan Cooled, Holds 8 FOI modules, supports redundant power, 1 power supply included
CMA-2001	Chassis Mount Adapter, allows for mounting of FOI into RMC chassis
PSQ-4909	Standalone power supply for FOI modules
WMA-3002	Wall Mount Adapter

TIS Accessories	
TDR-01-AC	1U Rear Connect Rack with power harness – Holds (6) TD Modules
TDP	1U Modular Front Connect Rack with power harness – Holds (6) TD Modules
TD-DINR	DIN Rail mounting bracket
PSA-T913	Spare Wall Power Adapter for TD Series Modules, 9V @ 1.3A

Other accessories available, contact a FiberPlex Technologies representative for more information

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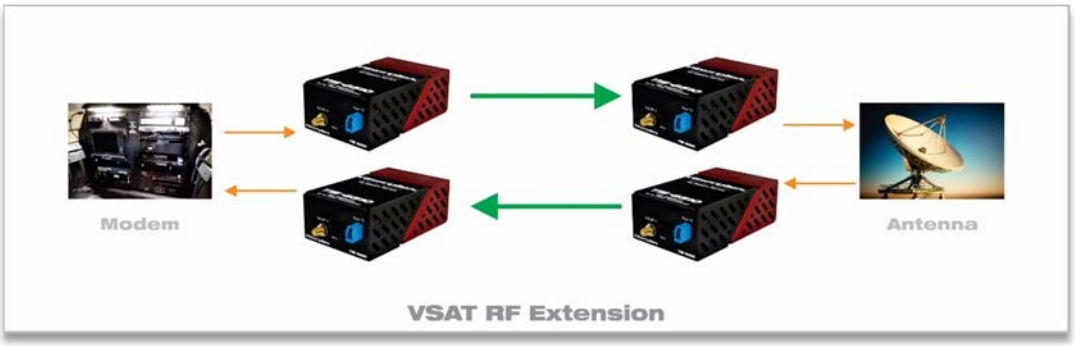
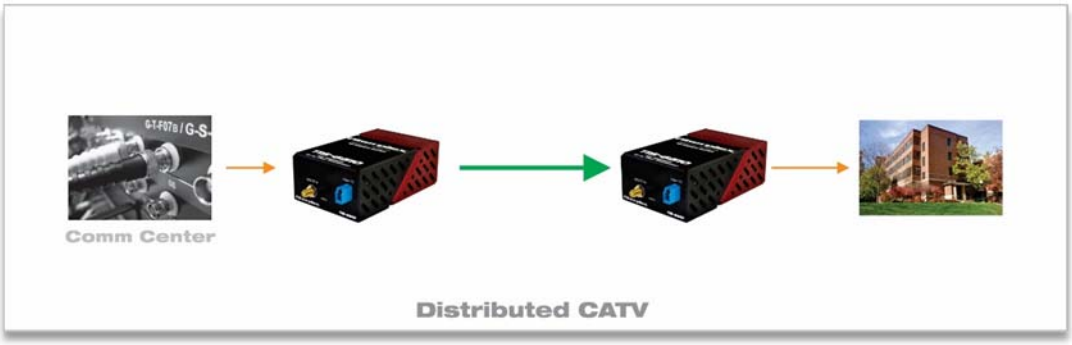
Typical Applications





Ordering Info

TD-6510 - L5D

Optical Interface:
L5D = singlemode, 1310nm, >50km, LC
T5D = singlemode, 1310nm, >50km, ST

Model:
6510 = Transmitter, 50Ω SMA
6511 = Receiver, 50Ω SMA

Series:
FOI = Rugged Mil-Grade Housing
TD = "Throw Down" Aluminum Housing